

DOCKET NO.: ISIS-3561

PATENT

LISTING OF THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1-65. (canceled)

66. (currently amended) A method for administering an oligonucleotide into a lung of a mammal, said method comprises:

aerosolizing the oligonucleotide; and

introducing the aerosolized oligonucleotide into the lung of the mammal, wherein the sugar moiety of at least one nucleoside unit of the oligonucleotide is a 2'-O-substituted nucleoside unit comprising a 2'-O-substituent, and the oligonucleotide is taken up by at least one cell type in the lung of the mammal.

67. (previously presented) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-alkoxyalkoxy substituent.

68. (previously presented) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-methoxyethyl.

69. (previously presented) The method of claim 66 wherein said 2'-O-substituent of said 2'-O-substituted nucleoside unit is a 2'-O-dialkylaminooxyalkyl substituent.

70. (currently amended) The method of claim 66, 67, 68, or 69 wherein at least one ~~internucleotide~~ internucleotide linkage within said oligonucleotide is a phosphorothioate linkage.

71. (currently amended) The method of claim 66 wherein at least one internucleotide linkage within said oligonucleotide is a ~~3'-methylene phosphonate~~ 3'-methylene phosphonate, a

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non-phosphorous containing oligonucleotide linkage, a 2'-5' linkage or is a 3'-deoxy-3'-amino phosphoramidate linkage.

72. (previously presented) The method of claim 66 wherein said oligonucleotide is an aqueous media.

73. (previously presented) The method of claim 66 wherein said oligonucleotide is in a sterilized, pyrogen free water.

74. (currently amended) The method of claim 66 wherein said oligonucleotide is in a saline solution.

75. (currently amended) The method of claim 66 wherein said oligonucleotide is in a powder.

76.-77. (canceled)